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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/068,936	02/11/2002	Mario Beland	11320-1	2321
25277	7590 07/31/2003			
NATIONAL RESEARCH COUNCIL OF CANADA 1500 MONTREAL ROAD BLDG M-58, ROOM EG12			EXAMINER	
			REDDING,	REDDING, DAVID A
OTTAWA, ÓN	TARIO, KIA 0R6		ART UNIT PAPER NUMBER	
CANADA			ARIUNII	PAPER NUMBER
			1744	Z
			DATE MAILED: 07/31/2003	
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Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)			
		10/068,936	BELAND, MARIO			
Office Action Summary		Examiner	Art Unit			
		David A Redding	1744			
	The MAILING DATE of this communication app	pears on the cover sheet with the c	rrespondence address			
Period fo	ORTENED STATUTORY PERIOD FOR REPL'	V IS SET TO EVOIDE 2 MONTH	(S) EDOM			
THE   - Exte after   - If the   - If NC   - Failu   - Any   - eame	MAILING DATE OF THIS COMMUNICATION.  nsions of time may be available under the provisions of 37 CFR 1.1  SIX (6) MONTHS from the mailing date of this communication.  period for reply specified above is less than thirty (30) days, a reply operiod for reply is specified above, the maximum statutory period or re to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be ting within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	nely filed  rs will be considered timely. the mailing date of this communication. ED (35 U.S.C. § 133).			
Status						
1)	Responsive to communication(s) filed on					
2a) <u></u> □	, <b>_</b>	is action is non-final.				
3)□.	Since this application is in condition for allows closed in accordance with the practice under ion of Claims					
•	Claim(s) <u>1-16</u> is/are pending in the application	· 1				
•	4a) Of the above claim(s) is/are withdraw					
	Claim(s) is/are allowed.					
· · · · · · · · · · · · · · · · · · ·	Claim(s) <u>1-16</u> is/are rejected.					
•	Claim(s) is/are objected to.					
•	Claim(s) are subject to restriction and/o	r election requirement.				
-	ion Papers	·				
9)[	The specification is objected to by the Examine	г.				
10)⊠	The drawing(s) filed on <u>11 February 2002</u> is/are	e: a) accepted or b) objected to	by the Examiner.			
	Applicant may not request that any objection to the	e drawing(s) be held in abeyance. S	ee 37 CFR 1.85(a).			
11)	The proposed drawing correction filed on	_ is: a)☐ approved b)☐ disappro	oved by the Examiner.			
	If approved, corrected drawings are required in re	ply to this Office action.				
12)	The oath or declaration is objected to by the Ex	aminer.				
Pri rity	ınder 35 U.S.C. §§ 119 and 120					
•	Acknowledgment is made of a claim for foreign	n priority under 35 U.S.C. § 119(a	a)-(d) or (f).			
a)	☐ All b)☐ Some * c)☐ None of:					
	1. Certified copies of the priority document					
	2. Certified copies of the priority document	s have been received in Applicati	ion No			
* 5	3. Copies of the certified copies of the prioapplication from the International Buse the attached detailed Office action for a list	reau (PCT Rule 17.2(a)).	₹.			
14) <u> </u>	Acknowledgment is made of a claim for domesti	c priority under 35 U.S.C. § 119(	e) (to a provisional application).			
	) ☐ The translation of the foreign language pro Acknowledgment is made of a claim for domest					
Attachmen	t(s)					
2) Notic	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449) Paper No(s) <u>2</u>	5) Notice of Informal	y (PTO-413) Paper No(s) Patent Application (PTO-152)			
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#### **DETAILED ACTION**

## Claim Rejections - 35 USC § 112

- 1. The following is a quotation of the second paragraph of 35 U.S.C. 112:
  - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 2. Claims 1-16 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 1 applicant specifies that the probe body for positioning **substantially** only the gas permeable tube inside the enclosure. However, from a reading of the specification it is unclear as to what this limitation defines. There is no description in the specification which even hints at what the above-mentioned limitation defines.

Claim 11 constitutes a process limitation. It is indefinite as to how the tube probe is further structurally defined by the limitation.

### Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

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4. Claims 1,6-12, and 16 are rejected under 35 U.S.C. 102(b) as being anticipated by the Austin, G.D. et al.

The Austin et al. article discloses a probe (figure 1) which comprises a single piece of stainless steel tube, the interior of the tube constitutes the inlet channel, and the carrier gas feed line the outlet channel, a sealing mechanism in the form of flanged fitting with o-ring, a gas permeable tube positioned at the bottom of the tube. The probe tube, sealing mechanism and silicon tubing are positioned relative to one another such that substantially only the silicon tubing is positioned within the fermenter.

## Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

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6. Claims 2-5,13-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Austin et al.

Claims 2,3, and 14 define a supporting plate for supporting the silicon tubing. The Austin et al. article discloses a small cylindrical mesh sleeve which fits to the end of the tube for supporting the silicon tubing. This mesh sleeve is considered to be functionally equivalent to the claimed supporting plate.

Also, the use of adapters to connect two tubes of differing diameters is known and within the kin of the routineer.

In Gardner v. TEC Systems, Inc., 725 F.2d 1338, 220 USPQ 777 (Fed. Cir. 1984), cert. denied, 469 U.S. 830, 225 USPQ 232 (1984), the Federal Circuit held that, where the only difference between the prior art and the claims was a recitation of relative dimensions of the claimed device and a device having the claimed relative dimensions would not perform differently than the prior art device, the claimed device was not patentably distinct from the prior art device. Accordingly, claim 15 is considered to be obvious in view of Austin et al.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to David A Redding whose telephone number is 703-308-3910. The examiner can normally be reached on M,T,Th,Fr, 7:30-6:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Warden can be reached on 703-308-2920. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9310 for regular communications and 703-872-9311 for After Final communications.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0661.

David A Redding Primary Examiner Art Unit 1744 Page 5

D.A.R. July 28, 2003